

<110> Rosen et al.

<120> 44 Human Secreted Proteins

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<141> 1999-08-05

<150> 60/074,118

<151> 1998-02-09

<150> 60/074,157

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<170> PatentIn Ver. 2.0

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1140

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1260

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<210> 21

<211> 1761

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1207)

<223> n equals a,t,g, or c

<400> 21

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<210> 22

<211> 1189

<212> DNA

<213> Homo sapiens

<400> 22

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<210> 23
 <211> 1492
 <212> DNA
 <213> Homo sapiens

<400> 23

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<210> 24
 <211> 1608
 <212> DNA
 <213> Homo sapiens

<400> 24

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<210> 25

<211> 1964

<212> DNA

<213> Homo sapiens

<400> 25

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<210> 26

<211> 933

<212> DNA

<213> Homo sapiens

<400> 26

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<210> 27

<211> 1237

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (672)

<223> n equals a,t,g, or c

<400> 27

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<210> 28
 <211> 960
 <212> DNA
 <213> Homo sapiens

<400> 28							
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<210> 29
 <211> 1067
 <212> DNA
 <213> Homo sapiens

<400> 29							
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<210> 30
 <211> 1063
 <212> DNA

205222 2452901

<213> Homo sapiens

<220>

<221> SITE

<222> (965)

<223> n equals a,t,g, or c

<400> 30

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gttggtgggt	tgaggtattg	cagtttaaag	cagtttggat	gtgctgataa	ttttttctg	180
attatcttca	agtctccatg	gacagtgtca	ctgcaggtct	attcatgctt	tcgttccctc	240
tttacctgcc	ttcatctgct	ttctctgggc	attggtaccc	ataccaggt	gtggtcagtt	300
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<210> 31

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 31

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<210> 32
 <211> 1382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1339)
 <223> n equals a,t,g, or c

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 tcacatttca gagttagttt tcaatggaag aaatgagcaa aggtttttat tttagttaat 180
 atagaaattt gaataattca gagtacagaa aggaacacat ttcatagaaca tgggtgggaat 240
 ttttcactta atgtattata ttccaccaat atacaaatat ttgtatyatt ttagggcagt 300
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 attggtgagg tagagagcaa acacacacta agggagtgc ttgtaattga gcagaaattt 420
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 taatgtgaaa attccagggg ggaaagtaag caagaaagta aagctgcaga gctgcatgtt 660
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<210> 33
 <211> 1502
 <212> DNA
 <213> Homo sapiens

<400> 33
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 ttgcaactga tgggcacata cttaaaaagct cttgtgcatg gaatccctgt ctgttagcca 240
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 agctgagttg gcttttgata gtggaaaaaa aacaaaattt gactttttat ggccaaaatt 360
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<210> 34

<211> 727

<212> DNA

<213> Homo sapiens

<400> 34

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<210> 35

<211> 1991

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (353)

<223> n equals a,t,g, or c

<400> 35

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gatttcttat	ttagagaaga	cttttcaggt	ccgtcgacct	gcggggcacta	tcttacttag	420
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<210> 36

<211> 2321

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (787)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (880)

<223> n equals a,t,g, or c

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<210> 37

<211> 1558

<212> DNA

<213> Homo sapiens

<400> 37

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gaaactgaat	ttcagagatg	tcaggtaacc	tgcctacttc	acacactagg	agttttgatg	180
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<210> 38

<211> 1701

<212> DNA

<213> Homo sapiens

<400> 38

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<210> 39

<211> 1903

<212> DNA

<213> Homo sapiens

<400> 39

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gacatctgga	acatccatgg	gaaagaatca	tgtgatgtac	agctttatat	aaagagacaa	180
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agaccagaa	ttgccaaaac	aatcttgaaa	aagaacaaaa	ctgaagctaa	gacttccta	1860
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<210> 40

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 40

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cagcttaatt	tttctgtatt	gcagtgttta	taggttctct	gtgtgttaaa	cttgatttca	1200
taaattaaaa	acaatgggtca	gaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaammmag	1260
gsgggcccg	gaaccaattt					1280

<210> 41

<211> 1918

<212> DNA

<213> Homo sapiens

<400> 41

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catcagcccc	gggcccgcag	gaaagaggga	gccactcaaa	ctaggataat	gcacagaggg	180
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<210> 42

<211> 1268

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (479)

<223> n equals a,t,g, or c

<400> 42

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tgcattttgc	tttctttcgg	cgtacatctc	atgctagatt	tttatctggg	ggcctttgaa	180
gagccagccg	gcacagaagc	atggtggcaa	cgctgtgcct	ggaaaactca	tcagtgtcac	240
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aactcgta						1268

<210> 43

<211> 1201

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1192)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1197)

<223> n equals a,t,g, or c

<400> 43

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gccagaggtc	ggattcatgt	ggcaggatgg	ggtccaaact	gtacaaaagc	ttggagatga	480
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a						1201

<210> 44
 <211> 819
 <212> DNA
 <213> Homo sapiens

<400> 44						
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ggcaaaaactt	atgtattacc	agatactatg	tctagtagtg	ttttgttggc	tcattcactc	180
attcattcat	ttattcaaca	aacattttttt	gattgccttt	tatgtgccag	gccctgccat	240
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aattcgatat	caagcttatc	gataccgtcg	acctcgagg			819

<210> 45
 <211> 1566
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (12)
 <223> n equals a,t,g, or c

<220>
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 <222> (16)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (184)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (728)

<223> n equals a,t,g, or c

<400> 45

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<210> 46

<211> 2094

<212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 956

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (319)

<223> n equals a,t,g, or c

<400> 47

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<210> 48

<211> 1859
 <212> DNA
 <213> Homo sapiens

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<210> 49
 <211> 1461
 <212> DNA
 <213> Homo sapiens

<400> 49
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<210> 50

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 50

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<210> 51

<211> 2581

<212> DNA

<213> Homo sapiens

<400> 51

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<210> 52

<211> 991

<212> DNA

<213> Homo sapiens

<400> 52

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caaaagagaa	ttagaaatgt	ttgaattaaa	gtgaagaagg	gttgggggag	atgggcctga	240
accacttcc	tgtctcaatc	catgctaccc	caaacactcc	agggaacctc	tgaggtttta	300
ttgggtgcac	tttgaaaatt	tctcttctat	agtgtgtttg	tttgatttta	aatcacagag	360
aaaactgggt	tttactctta	gagaaacatt	ttcatccagt	tttttagttt	gcttcatttg	420
acttcctaaa	tcatttttga	gttcacaagg	atttggtact	tttctgttta	gctttctctc	480
tctaagcttt	atctacctta	aaaacaaagt	ccttttttta	atggccagtc	caaccaattg	540
atcttctcaa	ctgaagtgcc	caggtgtgga	ctcatcaatt	tccgttagaa	tagggacatc	600
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aattcatatg	gttttccaca	aatcccttct	ttggctacat	tgtctcctta	ttcaatggat	780
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cgagcagtag	ttgcacatag	ttgccagttt	taccttctta	gtcattagat	ttccaaacca	900
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ctaaaaaaaa aaaaaaaaaa aaaactcgta g

<210> 53
 <211> 2422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (388)
 <223> n equals a,t,g, or c

<400> 53

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gctctgtgcc	tctgtctcac	ctgtggtgag	ctgggcgagc	tgggcgagct	gggcgagctg	180
ggctggggag	agcctgtgag	gaccgagagg	agaaatgaga	agaaggaaca	aaaatattat	240
ttctatgtaa	tttatatttt	acttatgcc	aattatttat	gataatttgc	cattgtctata	300
ctgtaccagt	gtcaaatgct	gcagcctgcc	aagctgtgat	tttgtgaggc	ttgtccctat	360
gtaggatgca	ccgcaggccc	ctggcacntg	aaagagtgtg	cagtggactg	tgggtctccc	420
atatgcggtg	ccgcccacaa	gtggctttgc	ctcaagcaac	ctaccctgat	gttttactca	480
ttggaatgtt	tttccccgat	tgtggatgac	ttcttttctg	atggagagag	tccaggaggg	540
atggaaaack	cctggattta	agctcagcat	ccccacatg	ggcttttcga	tcatcttcag	600
gcctgaagct	gcacgacctg	aagttcgctt	gcatttatca	gccctctttg	tgctgtctct	660
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tgccatcatc	taagccactg	aatcaagtgt	atttcaggct	tatttcaaca	ttccaatgcc	840
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taacgtcttc	tctgccttgt	tagtgcata	ttttactttt	ctgatactgt	aaagaatata	2280
tccagtatgt	aaatgaatgt	tctataaatc	ttttgtatag	tcattttctc	tgctccttaa	2340
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aaaaaaaaaa	aaaaaaaaactc	ga				2422

<210> 54

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<400> 55
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120
tcgtcaccgc aagatgaagc cagtgcagat ggtgccagcc atcagccaga actggacatt
180
ccatggtccc gggggccaccg gccaggctgc tgccaactgg atcgccggct ttggccgtgg
240
gccatgccac caaccctgct gggtatccgg cagaatgggc atgcagccag cgggcggtta
300
ctgggcatgg acgagggtcaa gggtgaaaag cagctggggc gcatgttcta cgcgatcaca
360
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<210> 56
<211> 957
<212> DNA
<213> Homo sapiens
```

```

<400> 56
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120
gaactctgca gccaagctt gcgccgcgct cgcccgtggc ccaggcagga cccttcgcgc
180
gcctcccagt ggcagccaca ggtgctgggt ggtttgcgtga rctatcacgg gtgggggtggg
240
cagcgtctga gtccttgccc gagaagcatc tgctgtgtgt ccacgaggca cctggagggg
300
gccagatcca aggcacaggg ccctgctgca tggctccaca tgggaagttcg agtcccccg
360
gtccagccgc cggccctgca ggtgcccagc agctctgaca aagcggggca gggccgctgg
420
ggtgtccctg gacagcgggg cctggtgggc aggggaggag gctgcaaggt gacaccag
480
ttgccttgca gacgtacgga gcgcaagagg acggcagcgt cggcgaaggt gacctgtcct
540
gcatacctcaa gacggccctg ggggtggcag agctcacctg gaccgaccta ttccgagcca
600
ttgaccaaga ggagaagggg aagatcacat tcggtgagcc cgcaggagtg gggtcgtcct
660
cgcgaccctt gggcgggggc tgggcagagt gtggggcgag tctccgtggg agcccaggac
720
aggagtggag tccccgccat gcctccattc accaggctgc cctgtgtaac aaagaaaccc
780
ctgagaagga aggttctgga gacctggcag ggttcgtagg gagctttcca atctgatttg
840
ttttggcgat ttatacaacc aaactccaag ccagttccg aagctctgag ccttccatgg
900

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cctcaggctg ggattcaggt gcctggaggt gggggatacc cgcacccagc cctcgag
957

<210> 57

<211> 1433

<212> DNA

<213> Homo sapiens

<400> 57

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60
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120
gggaactgct ctgctgagcc tcttctcac ctgctgcttc ctaggactaa cctgaaggct
180
aagggtaccag gctgaagtca gtgctcagaa aaccaatcgt cattcttttg ggtttttttt
240
cttgaagagc cactttctct ttaccttggt ctagcctggt ggaggtaggg tttctgcaat
300
tccaaaggcc gtacacagcc tctcaccatc agaccacttt ttaaggctct tcgttcatac
360
ctagctcgaa gattcacttc ctcaggaagc catttttagtt acaaactctgg gaaaacttaa
420
aatgctttca ttgtgccatg ttttctgttg cagcttcagt accgtacctg gtggtcaggc
480
atacttaciaa gtttcttttt acagtaacct cttgtggaca tctaataaat ggtcattatt
540
ttttagtact agtttgtttt cctgaacact gtaagatctg tgactgacgt ttgatacctt
600
aaagcagtg ccatataata ctaccacta tttgttcttt atttctgtca gataaaaatg
660
ttctatgtag tgtctacagt catttttttt ttaactagaa tttagatttg gaagtagttt
720
ttctattagt tgatttgcac gaaatacaaa attaggaaaa ggcttattcc acctcaacct
780
agttgaacta ttaatgattt tttttttttt ttgaggattt gggctctttc tagatagaaa
840
atcacctga acttctagct ttgcattgtg aagtgcagat catgaagatg agaaaatgtt
900
gggagatcat ttttgcaaag ggcataatag tcggcattca gatatgagtt aactgcagag
960
ggaaaattgc aagctgtcat gttggccttg ttctctcaa ccttctggta acctacaag
1020
ctcctacagg ttgtatgtga aattgcaaga tgattatata gccctgttga atttacaacc
1080
agatcttgct ttcaaaccat tattagccaa gggtttgatt ccacacctgt gttcatggat
1140
tttttggtat tagacattgc tgtaactctg ttttcacttt ttcatctggt atcttggtc
1200
acttaaggga gaaggtatca gcagcctagg accacttggt ttctgttttt atgtttcata
1260
gttcatggct gataaaaatt acctgtcctt aggccgagtg cagtgcctca cacctgtaat
1320
cccagcactt tgggaggccg aggtgagtag atcacctgag atcaggagtt cgagaccagc
1380
ctggacaaca agagcaaac tccatctcca aaaaaaaaaa aaaaaaact cga
1433

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<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (1573)  
<223> n equals a,t,g, or c
```

```

<400> 58
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atcactgata tgtgcaggaa atgaagacat tgccctgccat gcttggaaact gggaaattat
120
tttgggtctt cttcttaatc ccatactctg acatctggaa catccatggg aaagaatcat
180
gtgatgtaca gctttatata aagagacaat ctgaacactc catcttagca ggagatccct
240
ttgaactaga atgccctgtg aaatactgtg ctaacaggcc tcatgtgact tgggtgcaagc
300
tcaatggaac aacatgtgta aaacttgaag atagacaaac aagttggaag aagagaagaa
360
catttcattt ttcactctac ytttgaacca gtgcttccta atgacaatgg gtcataccgc
420
tgttctgcaa attttcagtc taatctcatt gaaagccact caacaactct ttatgtgaca
480
ggtgagttct caacacctag accatctgat atttttctta taatgtttcc aggaagaggg
540
gggttcagtt tctcaagtga ttatgttaga aagccaactc ctatagcaca tctgaaatct
600
gctacacctc acagattggt atgtgccagt gtgtacatat gtgtgtgtat gtgtgcgttt
660
gargtgagtg agatagagga gagtagakaa atagatagta aaagttattg tttttgactt
720
tagggattat aaaatttatt tgataagtcc aaaagtagac cactgaaata ttgaaaaaat
780
tataaagtga atacctatag ttgcgaatag ctctgtgatt gcttgtcctt ctttgttggt
840
ttttttttct ctttttccca tttttctctt ctttactttt gttcattaca atttcttgaa
900
gttatgtttg tggtgcttag gcaattaaac acttcttaat agttcacagt ttgtttagag
960
gaaaaacagc aaacaactaa ctgacttcct agtgattttc tgggaatatt cagagyttca
1020
tctytyttcc ctgttccccg aaagaggcct ttaatatgct ttgacaactg aggaaggaca
1080
gatagaagtt aagcttgggg aaaccaagct gaataaaaca tgaaaaaata catagggggg
1140
gagtaggtaa gagtaaaaaa tacttggttt ataaaaattt tatagccaac atcatattca
1200

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atgggtgaaag gcttagagct ttccccctaa gaacaggaac aagacatgga tccttgcttt
 1260
 tgccatttcc atttaacatt aaactgaaaa ttctagccag agcaaacagg caagaacaag
 1320
 aaataaaaga tatctaactt agaaaaaaag aagtaaaact ttattcacag atggcatgaa
 1380
 cttatgtgta gaaaaattct taaaaatttg tttaaaacta ttaaagctaa tacatgaatt
 1440
 tagcaattcc acatgataca ggatcaacac acmaaaatca gtgatatttc tatacactag
 1500
 caataaaciaa tccacaaaga aaattaagga aacagttcca tttacaatag catcaaaatg
 1560
 aataaaatat ttnagtacaa atttaaccaa agaggataa gagttgtaca ctgaacaaag
 1620
 aaagcatggc tgaaagaaat tcaagaatat gtaaataaat gcaaagacat tctgtattca
 1680
 tggactgaaa gatgtaatat tgtaaagata gcaatattcc ccaaggtgat ctacagattc
 1740
 aatgcagttc cactaaaatc ctaacagctt tttgttgcta ttgcagaaat aaaaaagctg
 1800
 atcctaaaat tcacattgag ttgcaacaga cccagaattg ccaaaacaat cttgaaaaag
 1860
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 1920
 aaaaaaaaaa gggcggccgc
 1940

<210> 59
 <211> 1715
 <212> DNA
 <213> Homo sapiens

<400> 59
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 ctgcccgaag atggatatgg ctctgactcc cacctctctt cccaggtcgt ccggggggccc
 120
 accatgctgg tgactgecta ccttgctttt gtaggcctcc tggcctcctg cctgggggctg
 180
 gaactgtcaa gatgccgggc taaaccccct ggaagggcct gcagcaatcc ctcttctctt
 240
 cggtttcaac tggacttcta tcaggtctac ttcttgggcc tggcagctga ttggcttcag
 300
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 360
 ctctatgtct gtggccttgc ctctacagtc ctctttggcc tagtggcctc ctcccttggtg
 420
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 480
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 540
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 600
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 660
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 720

1006543 333502

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 840
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 960
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 1020
 cgccacctcc aagaggtacc accttcagcc catgcacctg ctgtcccttg ctgtgctcat
 1080
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 1140
 ggagtccttc atagcctttc tacttattga gttggcttgt ggattatact ttcccagcat
 1200
 gagcttccta cggagaaagg tgatccctga gacagagcag gctgggtgtac tcaactgggt
 1260
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 1320
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 1380
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 1440
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 1500
 gactcttgaa ttccagctat ccgggattgt acagatctct ctgtgactga ctttgtgact
 1560
 gtccctgtggt ttctcctgcc attgctttgt gtttgggagg acatgatggg ggtgatggac
 1620
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 1680
 aaatgatcaa aaaaaaaaaa aaaaagggcg gccgc
 1715

<210> 60
 <211> 308
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (247)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (308)
 <223> Xaa equals stop translation

<400> 60
 Met Gly Thr Gln Glu Gly Trp Cys Leu Leu Leu Cys Leu Ala Leu Ser

[illegible]

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<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220> .
<221> SITE
<222> (579)
<223> Xaa equals stop translation
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<400> 61
Met Arg Ala Ala Arg Ala Ala Pro Leu Leu Gln Leu Leu Leu Leu Leu
  1             5             10             15

Gly Pro Trp Leu Glu Ala Ala Gly Val Ala Glu Ser Pro Leu Pro Ala
      20             25             30

Val Val Leu Ala Ile Leu Ala Arg Asn Ala Glu His Ser Leu Pro His
      35             40             45

Tyr Leu Gly Ala Leu Glu Arg Leu Asp Tyr Pro Arg Ala Arg Met Xaa
      50             55             60

Leu Trp Cys Ala Thr Asp His Asn Val Asp Asn Thr Thr Glu Met Leu
      65             70             75             80

Gln Glu Trp Leu Ala Ala Val Gly Asp Asp Tyr Ala Ala Val Val Trp
      85             90             95

Arg Pro Glu Gly Glu Pro Arg Phe Tyr Pro Asp Glu Glu Gly Pro Lys
      100            105            110

His Trp Thr Lys Glu Arg His Gln Phe Leu Met Glu Leu Lys Gln Glu
      115            120            125

Ala Leu Thr Phe Ala Arg Asn Trp Gly Ala Asp Tyr Ile Leu Phe Ala
      130            135            140

Asp Thr Asp Asn Ile Leu Thr Asn Asn Gln Thr Leu Arg Leu Leu Met
      145            150            155            160

Gly Gln Gly Leu Pro Val Val Ala Pro Met Leu Asp Ser Gln Thr Tyr
      165            170            175

Tyr Ser Asn Phe Trp Cys Gly Ile Thr Pro Gln Gly Tyr Tyr Arg Arg
      180            185            190

```

Thr Ala Glu Tyr Phe Pro Thr Lys Asn Arg Gln Arg Arg Gly Cys Phe
 195 200 205
 Arg Val Pro Met Val His Ser Thr Phe Leu Ala Ser Leu Arg Ala Glu
 210 215 220
 Gly Ala Asp Gln Leu Ala Phe Tyr Pro Pro His Pro Asn Tyr Thr Trp
 225 230 235 240
 Pro Phe Asp Asp Ile Ile Val Phe Ala Tyr Ala Cys Gln Ala Ala Gly
 245 250 255
 Val Ser Val His Val Cys Asn Glu His Arg Tyr Gly Tyr Met Asn Val
 260 265 270
 Pro Val Lys Ser His Gln Gly Leu Glu Asp Glu Arg Val Asn Phe Ile
 275 280 285
 His Leu Ile Leu Glu Ala Leu Val Asp Gly Pro Arg Met Gln Ala Ser
 290 295 300
 Ala His Val Thr Arg Pro Ser Lys Arg Pro Ser Lys Ile Gly Phe Asp
 305 310 315 320
 Glu Val Phe Val Ile Ser Leu Ala Arg Arg Pro Asp Arg Arg Glu Arg
 325 330 335
 Met Leu Ala Ser Leu Trp Glu Met Glu Ile Ser Gly Arg Val Val Asp
 340 345 350
 Ala Val Asp Gly Trp Met Leu Asn Ser Ser Ala Ile Arg Asn Leu Gly
 355 360 365
 Val Asp Leu Leu Pro Gly Tyr Gln Asp Pro Tyr Ser Gly Arg Thr Leu
 370 375 380
 Thr Lys Gly Glu Val Gly Cys Phe Leu Ser His Tyr Ser Ile Trp Glu
 385 390 395 400
 Glu Val Val Ala Arg Gly Leu Ala Arg Val Leu Val Phe Glu Asp Asp
 405 410 415
 Val Arg Phe Glu Ser Asn Phe Arg Gly Arg Leu Glu Arg Leu Met Glu
 420 425 430
 Asp Val Glu Ala Glu Lys Leu Ser Trp Asp Leu Ile Tyr Leu Gly Arg
 435 440 445
 Lys Gln Val Asn Pro Glu Lys Glu Thr Ala Val Glu Gly Leu Pro Gly
 450 455 460
 Leu Val Val Ala Gly Tyr Ser Tyr Trp Thr Leu Ala Tyr Ala Leu Arg
 465 470 475 480
 Leu Ala Gly Ala Arg Lys Leu Leu Ala Ser Gln Pro Leu Arg Arg Met
 485 490 495

10062548 223502
 223502 223502

Trp Thr Xaa

Cys Leu Arg Thr His Ala Pro Cys Trp Gly Thr Gly Gly Ala Pro Ala
165 170 175

[illegible]


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<210> 63
<211> 306
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (306)
<223> Xaa equals stop translation
```

<400> 63
Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
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Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
20 25 30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
35 40 45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
50 55 60

Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65 70 75 80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
85 90 95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
100 105 110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
115 120 125

Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys
130 135 140

Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr
145 150 155 160

Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr
165 170 175

Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala
180 185 190

Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala
195 200 205

Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu
210 215 220

Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met

[illegible]

[illegible]

Leu Leu Leu Leu Leu Leu Leu Trp Ser Leu Ser Glu Ile Lys Thr Leu
35 40 45

Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Glu
145 150 155 160

Pro Thr Ser Tyr Gly Pro His Arg Pro Arg Gln Arg Gln Arg Arg Glu
 165 170 175

Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg Xaa
 180 185 190

<210> 66
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 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (120)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (200)
 <223> Xaa equals stop translation

<400> 66
 Met Thr Ser Cys Gly Gln Gln Ser Leu Asn Val Leu Ala Val Leu Phe
 1 5 10 15

Ser Leu Leu Phe Ser Ala Val Leu Ser Ala His Phe Arg Val Cys Glu
 20 25 30

Pro Tyr Thr Asp His Lys Gly Arg Tyr His Phe Gly Phe His Cys Pro
 35 40 45

Arg Leu Ser Asp Asn Lys Thr Phe Ile Leu Cys Cys His His Asn Asn
 50 55 60

Thr Val Phe Lys Tyr Cys Cys Asn Glu Thr Glu Phe Gln Ala Val Met
 65 70 75 80

Gln Ala Asn Leu Thr Ala Ser Ser Glu Gly Tyr Met His Asn Asn Tyr
 85 90 95

Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe Phe Val Leu Met Leu
 100 105 110

Leu Val Leu Asp Leu Xaa Tyr Xaa Ser Ala Met Asn Tyr Asp Ile Cys
 115 120 125

Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly Arg Trp Met Lys Gln
 130 135 140

Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala Pro Arg Pro Gly Gln
 145 150 155 160

Arg Ala Pro Gln Pro Gln Pro Pro Pro Gly Pro Leu Pro Gln Ala Pro
165 170 175

Gln Ala Val His Thr Leu Arg Gly Asp Ala His Ser Pro Pro Leu Met
180 185 190

Thr Phe Gln Ser Ser Ser Ala Xaa
195 200

<210> 67
<211> 62
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<213> Homo sapiens

<220>
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<222> (62)
<223> Xaa equals stop translation

<400> 67
Met Leu Leu Ser Ser Leu Ile Gly Trp Cys Ser Phe Val Glu Pro Val
1 5 10 15

Leu Ile Phe Phe Phe Leu Thr Ile Leu Ile Arg Leu Leu Glu Gln Ser
20 25 30

Asn Trp Gly Ile Glu Glu Met Lys Thr Gly Tyr Phe Cys Ile Cys Glu
35 40 45

Val Gly Thr Gly Asn Ile Trp Thr Cys Ser Ser Tyr Ser Xaa
50 55 60

<210> 68
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<213> Homo sapiens

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<220>
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<222> (608)
<223> Xaa equals stop translation

<400> 68
Met Arg Thr Pro Gln Leu Ala Leu Leu Gln Val Phe Phe Leu Val Phe
1 5 10 15

Pro Asp Gly Val Arg Pro Gln Pro Ser Ser Ser Pro Ser Gly Ala Val
20 25 30

Pro Thr Ser Leu Glu Leu Gln Arg Gly Thr Asp Gly Gly Thr Leu Gln

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Ser Pro Ser Glu Ala Thr Ala Thr Arg Pro Ala Val Pro Gly Leu Pro
 50 55 60

Thr Val Val Pro Thr Leu Val Thr Pro Ser Ala Pro Gly Asn Arg Thr
 65 70 75 80

Val Asp Leu Phe Pro Val Leu Pro Ile Cys Val Cys Asp Leu Thr Pro
 85 90 95

Gly Ala Cys Asp Ile Asn Cys Cys Cys Asp Arg Asp Cys Tyr Leu Leu
 100 105 110

His Pro Arg Thr Val Phe Ser Phe Cys Leu Pro Gly Ser Val Arg Ser
 115 120 125

Ser Ser Trp Val Cys Val Asp Asn Ser Val Ile Phe Arg Ser Asn Ser
 130 135 140

Pro Phe Pro Ser Arg Val Phe Met Asp Ser Asn Gly Ile Arg Gln Phe
 145 150 155 160

Cys Val His Val Asn Asn Ser Asn Leu Asn Tyr Phe Gln Lys Leu Gln
 165 170 175

Lys Val Asn Ala Thr Asn Phe Gln Ala Leu Ala Ala Glu Phe Gly Gly
 180 185 190

Glu Ser Phe Thr Ser Thr Phe Gln Thr Gln Ser Pro Pro Ser Phe Tyr
 195 200 205

Arg Ala Gly Asp Pro Ile Leu Thr Tyr Phe Pro Lys Trp Ser Val Ile
 210 215 220

Ser Leu Leu Arg Gln Pro Ala Gly Val Gly Ala Gly Gly Leu Cys Ala
 225 230 235 240

Glu Xaa Asn Pro Ala Gly Phe Leu Glu Ser Lys Ser Thr Thr Cys Thr
 245 250 255

Arg Phe Phe Lys Asn Leu Ala Ser Ser Cys Thr Leu Asp Ser Ala Leu
 260 265 270

Asn Ala Ala Ser Tyr Tyr Asn Phe Thr Val Leu Lys Val Pro Arg Ser
 275 280 285

Met Thr Asp Pro Gln Asn Met Glu Phe Gln Val Pro Val Ile Leu Thr
 290 295 300

Ser Gln Ala Asn Ala Pro Leu Leu Ala Gly Asn Thr Cys Gln Asn Val
 305 310 315 320

Val Ser Gln Val Thr Tyr Glu Ile Glu Thr Asn Gly Thr Phe Gly Ile
 325 330 335

Gln Lys Val Ser Val Ser Leu Gly Gln Thr Asn Leu Thr Val Glu Pro
 340 345 350

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Gly Ala Ser Leu Gln Gln His Phe Ile Leu Arg Phe Arg Ala Phe Gln
 355 360 365
 Gln Ser Thr Ala Ala Ser Leu Thr Ser Pro Arg Ser Gly Asn Pro Gly
 370 375 380
 Tyr Ile Val Gly Lys Pro Leu Leu Ala Leu Thr Asp Asp Ile Ser Tyr
 385 390 395 400
 Ser Met Thr Leu Leu Gln Ser Gln Gly Asn Gly Ser Cys Ser Val Lys
 405 410 415
 Arg His Glu Val Gln Phe Gly Val Asn Ala Ile Ser Gly Cys Lys Leu
 420 425 430
 Arg Leu Lys Lys Ala Asp Cys Ser His Leu Gln Gln Glu Ile Tyr Gln
 435 440 445
 Thr Leu His Gly Arg Pro Arg Pro Glu Tyr Val Ala Ile Phe Gly Asn
 450 455 460
 Ala Asp Pro Ala Gln Lys Gly Gly Trp Thr Arg Ile Leu Asn Arg His
 465 470 475 480
 Cys Ser Ile Ser Ala Ile Asn Cys Thr Ser Cys Cys Leu Ile Pro Val
 485 490 495
 Ser Leu Glu Ile Gln Val Leu Trp Ala Tyr Val Gly Leu Leu Ser Asn
 500 505 510
 Pro Gln Ala His Val Ser Gly Val Arg Phe Leu Tyr Gln Cys Gln Ser
 515 520 525
 Ile Gln Asp Ser Gln Gln Val Thr Glu Val Ser Leu Thr Thr Leu Val
 530 535 540
 Asn Phe Val Asp Ile Thr Gln Lys Pro Gln Pro Pro Arg Gly Gln Pro
 545 550 555 560
 Lys Met Asp Trp Lys Trp Pro Phe Asp Phe Phe Pro Phe Lys Val Ala
 565 570 575
 Phe Ser Arg Gly Val Phe Ser Gln Lys Cys Ser Val Ser Pro Ile Leu
 580 585 590
 Ile Leu Cys Leu Leu Leu Leu Gly Val Leu Asn Leu Glu Thr Met Xaa
 595 600 605

<210> 69

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals stop translation

<400> 69

Met Ala Leu Arg Phe Leu Leu Leu Ser Ile Gly Pro Val Pro Ser Leu

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Gly Asn Ile Ala Ala Ala Gly Ser Asp Glu Lys Cys Lys Leu Ala Met

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Gln Arg Gly Ala Gln Ser Ser Val Asn Tyr Ser Gln Gly Ser Leu Lys

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Asp Ala Ala Ser Ala Ser Thr Arg Thr Ala Ser Gly Trp Val Lys Arg

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Asn Arg Ser Arg Glu Asn Gln Glu Met Leu Ile Tyr Ser Lys Asn Lys

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Ile Pro Ile Trp Lys Ile Ser Lys Lys Xaa

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<210> 70

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (117)

<223> Xaa equals stop translation

<400> 70

Met Ala Gly Leu Ile Phe Val Leu His Ser Cys Phe Arg Phe Ile Thr

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Phe Val Cys Pro Thr Ser Ser Asp Pro Leu Arg Thr Cys Ala Val Leu

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Leu Cys Val Gly Tyr Gln Asp Leu Pro Asn Pro Val Phe Arg Tyr Leu

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Gln Ser Val Asn Glu Leu Leu Ser Thr Leu Leu Asn Ser Asp Ser Pro

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Gln Gln Val Leu Gln Phe Val Pro Met Glu Val Leu Leu Lys Gly Ala

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Leu Leu Asp Phe Leu Trp Asp Leu Asn Ala Ala Ile Ala Lys Arg His

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Leu His Phe Ile Ile Gln Arg Glu Arg Glu Glu Ile Ile Asn Ser Leu

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Gln Leu Gln Asn Xaa

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<210> 71
 <211> 140
 <212> PRT
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<220>
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 <222> (140)
 <223> Xaa equals stop translation

<400> 71
 Met Cys Val Trp Gly Val Cys Val Cys Val Val Ala Arg Val Cys Val
 1 5 10 15

Trp Leu Gly Leu Ala Glu Leu Phe Arg Gly Arg Val Arg Asp Cys Gly
 20 25 30

Lys Ile Thr His Phe Pro Thr Tyr Leu Leu Tyr Trp Thr Leu Lys Asn
 35 40 45

Asn Asn Lys His Gln Val Lys Phe Leu Asn His Val Leu Cys Val Cys
 50 55 60

Val Cys Val Cys Val Cys Val Cys Ile Cys Lys Cys Ile Cys Ile Cys
 65 70 75 80

Met Leu Leu Tyr Phe Gln Val Asn Asn Tyr Ile Glu Asp Cys Ile Ala
 85 90 95

Gln Lys His Ser Leu Ile Lys Val Leu Arg Leu Val Cys Leu Gln Ser
 100 105 110

Val Cys Asn Ser Gly Leu Lys Gln Lys Val Leu Asp Tyr Tyr Lys Arg
 115 120 125

Glu Ile Leu Gln Val Ser Ile Phe Leu Asn Tyr Xaa
 130 135 140

<210> 72
 <211> 96
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals stop translation

<400> 72
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg
 1 5 10 15

Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn
 20 25 30

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Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser Xaa
85 90 95

Val Ala Gln Gln Ser Thr Thr Phe Thr Val Ala Tyr Phe Xaa
65 70 75

Met Ala Val Arg Leu Ile Lys Pro Ala Val Phe Ala Val Leu Ala Gly
1 5 10 15

51

Phe Ser Val Leu Trp Leu Ser Pro Ala Ser Leu Ala Ala Ser Phe Asp
20 25 30

Cys Asp Arg Ala Lys Arg Leu Thr Arg Lys Pro Ser Val Pro Arg Ala
35 40 45

Pro Ser Met Ile Arg Thr Xaa
50 55

<210> 75

<211> 210

<212> PRT

<213> Homo sapiens

<220>

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<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (210)

<223> Xaa equals stop translation

<400> 75

Met Tyr Phe Leu Phe Phe Phe Ala Phe Phe Phe Phe Pro Leu Phe Cys
1 5 10 15

Tyr Cys Phe Asn Tyr Asn Lys Arg Ala Arg Gly Ser Gln Ala Leu Ala
20 25 30

Arg Ser Trp Arg Pro Met Gly Val Leu Gly Arg Gly Arg Gly Glu Val
35 40 45

Ser Gly Gly Gln Arg Trp Arg Val Lys Asn Glu Lys Val Gly Glu Leu
50 55 60

Gly Leu Ala Gln Glu Pro Cys Val Pro Ala His Ser Pro Pro Ser Leu
65 70 75 80

Pro Leu Pro Thr Ser Leu Pro Leu His Gly Phe Ser Pro Pro Leu Pro
85 90 95

Glu Ser Tyr Gly Thr Gly Pro Cys Ser Ser Gly Ile Gln Leu Leu Pro
100 105 110

Ala His Ser Ser Ser Trp Ala Thr Ser Pro Pro Thr Phe Asp Val Ser

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115 120 125
 Pro Pro Val Ala Thr Leu Gln Leu Ala Phe Gln Ala Pro Ser Arg Gly
 130 135 140
 Arg Pro Leu Pro Arg Pro Leu Thr His Val Ala Ile Pro Thr Trp Leu
 145 150 155 160
 Pro Val Met Ser Leu Leu Ser Lys Pro Ser Cys Pro Leu Phe Leu Pro
 165 170 175
 Pro Arg His Ala Xaa Thr Lys Trp Trp Lys Pro Pro Leu Ser Pro Ser
 180 185 190
 Leu Pro Cys Ala Glu Phe Ser Xaa Val Leu Asn Glu Gly Glu Xaa Asp
 195 200 205
 Lys Xaa
 210

<210> 76
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals stop translation

<400> 76
 Met Pro Thr Ser Ser Tyr Arg Ser Val Trp Pro Leu Thr Leu Leu Ala
 1 5 10 15
 Leu Lys Ser Thr Ala Cys Ala Leu Ala Phe Thr Arg Met Pro Gly Phe
 20 25 30
 Gln Thr Pro Ser Glu Phe Leu Glu Asn Pro Ser Gln Ser Ser Arg Leu
 35 40 45
 Thr Ala Pro Phe Arg Lys His Val Arg Pro Lys Lys Gln His Glu Ile
 50 55 60
 Arg Arg Leu Gly Glu Leu Val Lys Lys Pro Ser Asp Phe Thr Gly Cys
 65 70 75 80
 Thr Gln Val Val Asp Val Gly Ser Xaa Gln Gly His Leu Ser Arg Phe
 85 90 95
 Met Ala Leu Gly Leu Gly Leu Met Xaa
 100 105

<210> 77
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 77
 Met Leu Leu Leu Met Leu Val Asn Thr Ser Ala Val Ala Cys Thr His
 1 5 10 15
 Gly Gly Arg Gly Pro Trp Gly Asn Ser Ala Ala Gln Ala Cys Ala Ala
 20 25 30
 Leu Ala Pro Trp Pro Arg Gln Asp Pro Ser Ala Ala Ser Gln Trp Gln
 35 40 45
 Pro Gln Val Leu Val Gly Leu Leu Ser Tyr His Gly Trp Gly Gly Gln
 50 55 60
 Arg Leu Ser Pro Cys Pro Arg Ser Ile Cys Cys Val Ser Thr Arg His
 65 70 75 80
 Leu Glu Gly Ala Arg Ser Lys Ala Gln Gly Pro Ala Ala Trp Leu His
 85 90 95
 Met Glu Val Arg Val Pro Arg Val Gln Pro Pro Ala Leu Gln Val Pro
 100 105 110
 Ser Ser Ser Asp Lys Ala Gly Gln Gly Arg Trp Gly Val Pro Gly Gln
 115 120 125
 Arg Gly Leu Val Gly Arg Gly Gly Gly Cys Lys Val Thr Pro Ser Leu
 130 135 140
 Pro Cys Arg Arg Thr Glu Arg Lys Arg Thr Ala Ala Ser Ala Lys Val
 145 150 155 160
 Thr Cys Pro Ala Ser Ser Arg Arg Pro Trp Gly Trp Gln Ser Ser Pro
 165 170 175

<210> 78
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals stop translation

<400> 78
 Met His Lys Asn Asn Leu Phe Leu Cys Val Leu Phe Arg Leu Leu Phe
 1 5 10 15

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Arg Cys Ser Cys Phe Asn Leu Leu Asn Phe Pro Gln Thr Tyr Ala Val
20 25 30

Gly Lys Gly Gln Ala Gly Lys Asp Gln Cys Ser Ser Xaa
35 40 45

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<210> 79
<211> 71
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (71)
<223> Xaa equals stop translation
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<400> 79
Met Asp Ser Val Thr Ala Gly Leu Phe Met Leu Ser Phe Leu Leu Tyr
1 5 10 15

Leu Pro Ser Ser Ala Phe Ser Gly His Trp Tyr Pro Tyr Pro Gly Val
20 25 30

Val Ser Trp Ser Asn Ser Cys Leu Ala Gly Leu Asn Cys Gly Val Ser
35 40 45

Gly Pro Lys Ala Ile Gly Thr Ser Val Val Tyr Phe Leu Ile Pro Ile
50 55 60

Leu Trp Arg Phe Val Phe Xaa
65 70

```
<210> 80
<211> 56
<212> PRT
<213> Homo sapiens
```

<400> 80
Met Cys Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
1 5 10 15

Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
20 25 30

Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
35 40 45

Leu Pro Arg Thr Asn Leu Lys Gly
50 55

```
<210> 81
<211> 49
<212> PRT
<213> Homo sapiens
```

Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys

Symbol	Definition	Symbol	Definition
\mathcal{A}	Algebra	\mathcal{B}	Algebra
\mathcal{C}	Algebra	\mathcal{D}	Algebra
\mathcal{E}	Algebra	\mathcal{F}	Algebra
\mathcal{G}	Algebra	\mathcal{H}	Algebra
\mathcal{I}	Algebra	\mathcal{J}	Algebra
\mathcal{K}	Algebra	\mathcal{L}	Algebra
\mathcal{M}	Algebra	\mathcal{N}	Algebra
\mathcal{O}	Algebra	\mathcal{P}	Algebra
\mathcal{Q}	Algebra	\mathcal{R}	Algebra
\mathcal{S}	Algebra	\mathcal{T}	Algebra
\mathcal{U}	Algebra	\mathcal{V}	Algebra
\mathcal{W}	Algebra	\mathcal{X}	Algebra
\mathcal{Y}	Algebra	\mathcal{Z}	Algebra
\mathcal{A}_1	Algebra	\mathcal{A}_2	Algebra
\mathcal{A}_3	Algebra	\mathcal{A}_4	Algebra
\mathcal{A}_5	Algebra	\mathcal{A}_6	Algebra
\mathcal{A}_7	Algebra	\mathcal{A}_8	Algebra
\mathcal{A}_9	Algebra	\mathcal{A}_{10}	Algebra
\mathcal{A}_{11}	Algebra	\mathcal{A}_{12}	Algebra
\mathcal{A}_{13}	Algebra	\mathcal{A}_{14}	Algebra
\mathcal{A}_{15}	Algebra	\mathcal{A}_{16}	Algebra
\mathcal{A}_{17}	Algebra	\mathcal{A}_{18}	Algebra
\mathcal{A}_{19}	Algebra	\mathcal{A}_{20}	Algebra
\mathcal{A}_{21}	Algebra	\mathcal{A}_{22}	Algebra
\mathcal{A}_{23}	Algebra	\mathcal{A}_{24}	Algebra
\mathcal{A}_{25}	Algebra	\mathcal{A}_{26}	Algebra
\mathcal{A}_{27}	Algebra	\mathcal{A}_{28}	Algebra
\mathcal{A}_{29}	Algebra	\mathcal{A}_{30}	Algebra
\mathcal{A}_{31}	Algebra	\mathcal{A}_{32}	Algebra
\mathcal{A}_{33}	Algebra	\mathcal{A}_{34}	Algebra
\mathcal{A}_{35}	Algebra	\mathcal{A}_{36}	Algebra
\mathcal{A}_{37}	Algebra	\mathcal{A}_{38}	Algebra
\mathcal{A}_{39}	Algebra	\mathcal{A}_{40}	Algebra
\mathcal{A}_{41}	Algebra	\mathcal{A}_{42}	Algebra
\mathcal{A}_{43}	Algebra	\mathcal{A}_{44}	Algebra
\mathcal{A}_{45}	Algebra	\mathcal{A}_{46}	Algebra
\mathcal{A}_{47}	Algebra	\mathcal{A}_{48}	Algebra
\mathcal{A}_{49}	Algebra	\mathcal{A}_{50}	Algebra
\mathcal{A}_{51}	Algebra	\mathcal{A}_{52}	Algebra
\mathcal{A}_{53}	Algebra	\mathcal{A}_{54}	Algebra
\mathcal{A}_{55}	Algebra	\mathcal{A}_{56}	Algebra
\mathcal{A}_{57}	Algebra	\mathcal{A}_{58}	Algebra
\mathcal{A}_{59}	Algebra	\mathcal{A}_{60}	Algebra
\mathcal{A}_{61}	Algebra	\mathcal{A}_{62}	Algebra
\mathcal{A}_{63}	Algebra	\mathcal{A}_{64}	Algebra
\mathcal{A}_{65}	Algebra	\mathcal{A}_{66}	Algebra
\mathcal{A}_{67}	Algebra	\mathcal{A}_{68}	Algebra
\mathcal{A}_{69}	Algebra	\mathcal{A}_{70}	Algebra
\mathcal{A}_{71}	Algebra	\mathcal{A}_{72}	Algebra
\mathcal{A}_{73}	Algebra	\mathcal{A}_{74}	Algebra
\mathcal{A}_{75}	Algebra	\mathcal{A}_{76}	Algebra
\mathcal{A}_{77}	Algebra	\mathcal{A}_{78}	Algebra
\mathcal{A}_{79}	Algebra	\mathcal{A}_{80}	Algebra
\mathcal{A}_{81}	Algebra	\mathcal{A}_{82}	Algebra
\mathcal{A}_{83}	Algebra	\mathcal{A}_{84}	Algebra
\mathcal{A}_{85}	Algebra	\mathcal{A}_{86}	Algebra
\mathcal{A}_{87}	Algebra	\mathcal{A}_{88}	Algebra
\mathcal{A}_{89}	Algebra	\mathcal{A}_{90}	Algebra
\mathcal{A}_{91}	Algebra	\mathcal{A}_{92}	Algebra
\mathcal{A}_{93}	Algebra	\mathcal{A}_{94}	Algebra
\mathcal{A}_{95}	Algebra	\mathcal{A}_{96}	Algebra
\mathcal{A}_{97}	Algebra	\mathcal{A}_{98}	Algebra
\mathcal{A}_{99}	Algebra	\mathcal{A}_{100}	Algebra

Leu Arg Lys Arg Ile Leu Xaa
100

<220>
<221> SITE
<222> (72)

<400> 87

Tyr Phe Asn Val Leu Val Ala His Leu Met Asn Val Asn Leu Lys Asn
20 25 30

Ser Val Gln Leu Ser Arg Tyr Asn Ser Ala Lys Gln Ile Leu Lys Leu
35 40 45

His Ile Thr Leu Gln His Met Val Pro His Thr Leu Ile Val Ala Phe
50 55 60

Tyr Ile Phe Ser Tyr Tyr Tyr Xaa
65 70

<210> 88

<211> 212

<212> PRT

<213> Homo sapiens

<400> 88

Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
1 5 10 15

Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
20 25 30

Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
35 40 45

Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
50 55 60

```
Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val
65                                70                        75                80
```

Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Glu Glu Lys Asn Ile Ser
85 90 95

Phe Phe Ile Leu His Phe Glu Pro Val Leu Pro Asn Asp Asn Gly Ser
100 105 110

Tyr Arg Cys Ser Ala Asn Phe Gln Ser Asn Leu Ile Glu Ser His Ser
115 120 125

Thr Thr Leu Tyr Val Thr Gly Glu Phe Ser Thr Pro Arg Pro Ser Asp
130 135 140

Ile Phe Leu Ile Met Phe Pro Gly Arg Gly Gly Phe Ser Phe Ser Ser
145 150 155 160

Asp Tyr Val Arg Lys Pro Thr Pro Ile Ala His Leu Lys Ser Ala Thr
165 170 175

Pro His Arg Leu Leu Cys Ala Ser Val Tyr Ile Cys Val Cys Met Cys
180 185 190

Ala Phe Glu Val Ser Glu Ile Glu Glu Ser Arg Glu Ile Asp Ser Lys
195 200 205

Ser Tyr Cys Phe
210

```
<210> 89
<211> 111
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (111)
<223> Xaa equals stop translation
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<400> 89
Met Thr Val Ser Tyr Phe Trp Trp Leu Arg Val Gly Ala Trp Ala Glu
1 5 10 15

Asp Val Glu Ala Leu Ala Ser Leu Pro Glu Asp Arg Leu Arg Trp Asn
20 25 30

Leu Leu Ala Leu Pro Ala Ser Pro Cys Ala Val Thr Ala Leu Val Ala
35 40 45

Arg His Arg Arg Ala Gly Leu Gln Arg Ser Ile Gln Cys Leu Leu Gly
50 55 60

Arg Gln Gly Gly Gly Gly Cys Asn Cys Glu Leu Thr Lys Pro Gln Val
65 70 75 80

Gly Ser Lys Trp Val Gly His Arg Lys Lys Ser Asp Leu Gln Ser Gly
85 90 95

Asp Leu Gly Ser Gly Leu Cys Leu Met Thr Gly Ser Val Met Xaa
100 105 110

```
<210> 90
<211> 42
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals stop translation
```

```
<400> 90
Met Val Lys Val Gly Ala Trp Arg Ala Val Gln Ile Leu Met Leu Phe
      1              5              10             15
```

Ala Asn Pro Gly His Ala Glu Gly Ala Cys Ile Ser Pro Gly Pro Ala

114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200

[illegible]

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<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 91
Met Val Ala Thr Leu Cys Leu Glu Asn Ser Ser Val Ser Leu Trp Phe
      1              5              10              15
```

Asp Asn Trp Pro Ser Gly Gly Ala Val Ala Arg Cys His Ser Gly Arg
35 40 45

```
<210> 92
<211> 77
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (77)
<223> Xaa equals stop translation
```

Val Gly Leu Met Gly Ile Asp Ser Leu Arg Lys Lys Tyr Asn Cys Lys
20 25 30

Ser Cys Gly Arg Met Gly Ser Lys Leu Tyr Lys Ser Leu Glu Met Asn
50 55 60

61

Glu Val Arg Gln Leu Ser Leu Arg Gln Lys Thr Met Xaa
65 70 75

<210> 93
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals stop translation

<400> 93
Met Ala Lys Leu Met Tyr Tyr Gln Ile Leu Cys Leu Val Val Phe Cys
1 5 10 15

Trp Leu Ile His Ser Phe Ile His Leu Phe Asn Lys His Phe Leu Ile
20 25 30

Ala Phe Tyr Val Pro Gly Pro Ala Ile Asp Ala Arg Asp Ser Ala Val
35 40 45

Ser Thr Thr Asp Lys Glu Phe Cys His Cys Gly Val Tyr Ile Leu Val
50 55 60

Ala Gly Asp Arg Xaa
65

<210> 94
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals stop translation

<400> 94
Met Glu Thr Thr Gly Ser Trp Thr Cys Leu Phe Asn Leu Val Ala Ile
1 5 10 15

Ile Ser Asn Leu Gly Leu Cys Thr Phe Leu Val Phe Gly Gln Ala Gln
20 25 30

Arg Val Asp Leu Ser Ser Thr His Glu Asp Leu Xaa
35 40

<210> 95
<211> 47
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
 <222> (47)
 <223> Xaa equals stop translation

<400> 95

Met	Lys	Ala	Gln	Met	Leu	Leu	Ser	Leu	Ala	Trp	Pro	Leu	Pro	Leu	Ser
1				5					10					15	
Thr	Ala	Asn	Ser	Cys	Leu	Pro	Gln	Phe	Pro	Arg	Gly	Leu	Tyr	Ser	Ala
			20					25					30		
His	Tyr	Cys	Pro	Ser	Cys	Leu	Leu	Phe	Leu	Glu	Ala	Leu	Ser	Xaa	
		35					40						45		

<210> 96

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 96

Met	Cys	Leu	Leu	Ser	Phe	Asn	Cys	Lys	Ala	Val	Leu	Ser	Leu	Ser	Leu
1				5					10					15	
Ile	Ser	Leu	Ser	Phe	Leu	Cys	Cys	Leu	Glu	Leu	Cys	Leu	Ala	Arg	Cys
			20					25					30		
Gly	Gly	Arg	Arg	Asn	Val	Ser	Ala	Pro	Leu	Lys	Met	Phe	Ile	Ile	Xaa
		35					40					45			

<210> 97

<211> 450

<212> PRT

<213> Homo sapiens

<400> 97

Met	Leu	Val	Thr	Ala	Tyr	Leu	Ala	Phe	Val	Gly	Leu	Leu	Ala	Ser	Cys
1				5					10					15	
Leu	Gly	Leu	Glu	Leu	Ser	Arg	Cys	Arg	Ala	Lys	Pro	Pro	Gly	Arg	Ala
			20					25					30		
Cys	Ser	Asn	Pro	Ser	Phe	Leu	Arg	Phe	Gln	Leu	Asp	Phe	Tyr	Gln	Val
		35					40					45			
Tyr	Phe	Leu	Ala	Leu	Ala	Ala	Asp	Trp	Leu	Gln	Ala	Pro	Tyr	Leu	Tyr
	50					55					60				
Lys	Leu	Tyr	Gln	His	Tyr	Tyr	Phe	Leu	Glu	Gly	Gln	Ile	Ala	Ile	Leu

[illegible]

Leu His Ser Leu Ala Cys Leu Gly Leu Leu Val Leu His Asp Ser Asp
385 390 395 400

Arg Lys Thr Gly Thr Arg Asn Met Phe Ser Ile Cys Ser Ala Val Met
405 410 415

Val Met Ala Leu Leu Ala Val Val Gly Leu Phe Thr Val Val Arg His
420 425 430

Asp Ala Glu Leu Arg Val Pro Ser Pro Thr Glu Glu Pro Tyr Ala Pro
435 440 445

Glu Leu
450

<210> 98

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 98

Met Gln Ala His Pro Ile Phe Ile Tyr His Lys Arg Val Phe Phe Leu
1 5 10 15

Leu Lys Phe Ile Phe Tyr Ile Ile Phe Cys Phe Phe Phe Leu Asp Ile
20 25 30

Ser Thr Leu Tyr Cys Ser Leu Ser Thr Phe Cys Lys Lys Xaa
35 40 45

<210> 99

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 99

Met Gly Val Leu Leu Leu Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe
1 5 10 15

Ser Pro Val Val Leu Pro Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe
20 25 30

Val Phe Cys Thr Ser Phe Trp Arg Pro Leu Ser Phe Gln Lys Gly Xaa
35 40 45

<210> 100
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

<400> 100
 Met Arg Arg Cys Phe Leu Val Leu Glu Ile Ser Val Cys Leu Met Val
 1 5 10 15

Ile Ile Val Phe Leu Asp Phe Trp Val Gly Gly Pro Gly Arg Gly Arg
 20 25 30

Leu Arg Asn Lys Ser Val Pro Gln Ile Thr Ser Ile Trp Lys Glu Phe
 35 40 45

Phe Val Xaa
 50

<210> 101
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals stop translation

<400> 101
 Met Cys Phe Arg Phe Met Met Ile Ile Phe Leu Thr Asn Val Ile Ser
 1 5 10 15

Val Ser Ala Val Ile Phe Lys Leu Arg Glu Arg Asp Ser Ile Arg Phe
 20 25 30

Phe Phe Phe Phe Ile Phe Leu Lys Xaa
 35 40

<210> 102
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals stop translation

20050202 044244

<400> 102

Met Gly Phe Ser Ile Ile Phe Arg Pro Glu Ala Ala Arg Pro Glu Val
 1 5 10 15

Arg Leu His Leu Ser Ala Leu Phe Val Leu Leu Leu Ala Thr Leu Gly
 20 25 30

Phe Leu Leu Gly Thr Met Cys Gly Cys Gly Met Cys Glu Gln Lys Gly
 35 40 45

Gly Xaa
 50

<210> 103

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals stop translation

<400> 103

Met Thr Leu Leu Leu Phe Ile Phe Phe Val Asp Cys Phe Ser Thr Pro
 1 5 10 15

Gly Ser Ser Val Phe Asp Thr Gln Glu Val Trp Val Val Val Tyr Ser
 20 25 30

Val Asn Lys Leu Leu Ala Val Gln His Cys Gln Gly Ile Ala Pro Asn
 35 40 45

Val Tyr Ala Leu Ala Val Lys Lys Ser Val Cys Asn Val Ser Glu Trp
 50 55 60

Ser Leu Val Ile Cys His Pro Met Pro Ile Xaa
 65 70 75

<210> 104

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals stop translation

<400> 104

Met Leu Met Leu Ala Val Leu Met Ala Ala Thr His Ala Val Tyr Gly
 1 5 10 15

Lys Leu Leu Leu Phe Glu Tyr Arg His Arg Lys Met Lys Pro Val Gln
 20 25 30

```
<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals stop translation
```

Met Xaa Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
1. 5 10 15

Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
20 25 30

Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
35 40 45

Leu Pro Arg Thr Asn Leu Lys Ala Lys Val Pro Gly Xaa
50 55 60

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle$ (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

 $\langle 222 \rangle \quad (102)$

<223> Xaa equals stop translation

<400> 107

Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
1 5 10 15

Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
20 25 30

Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
35 40 45

Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
50 55 60

Asn	Arg	Pro	His	Val	Thr	Trp	Cys	Lys	Leu	Asn	Gly	Thr	Thr	Cys	Val
65					70					75					80

Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Lys Arg Arg Thr Phe His
85 90 95

Phe Ser Ser Thr Xaa Xaa
100

<210> 108

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (154)

<223> Xaa equals stop translation

<400> 108

Met Leu Val Thr Ala Tyr Leu Ala Phe Val Gly Leu Leu Ala Ser Cys
 1 5 10 15

Leu Gly Leu Glu Leu Ser Arg Cys Arg Ala Lys Pro Pro Gly Arg Ala
 20 25 30

Cys Ser Asn Pro Ser Phe Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val
 35 40 45

Tyr Phe Leu Ala Leu Ala Ala Asp Trp Leu Gln Ala Pro Tyr Leu Tyr
 50 55 60

Lys Leu Tyr Gln His Tyr Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu
 65 70 75 80

Tyr Val Cys Gly Leu Ala Ser Thr Val Leu Phe Gly Leu Val Ala Ser
 85 90 95

Ser Leu Val Asp Trp Leu Gly Arg Lys Asn Ser Cys Val Leu Phe Ser
 100 105 110

Leu Thr Tyr Ser Leu Cys Cys Leu Thr Lys Leu Ser Gln Asp Tyr Phe
 115 120 125

Val Leu Leu Val Gly Arg Ala Leu Gly Gly Leu Ser Thr Ala Ala Leu
 130 135 140

Leu Ser Leu Arg Gly Leu Val Tyr Pro Xaa
 145 150

<210> 109

<211> 55

<212> PRT

<213> Homo sapiens

<400> 109

Val Lys Val Lys Glu Lys Ser Ala Ala Glu Gly Thr Gly Lys Lys Pro
 1 5 10 15

Lys Gly Cys Arg Leu Pro Gly Val Leu Gly Glu Pro Pro Ser Ser Ala
 20 25 30

Gly Pro Arg Lys Gln Arg Arg Thr Val Glu Lys Gly Gly Gly Gln Gly
 35 40 45

Gly Asn Ser Arg Ala Ala Ser
 50 55

<210> 110

<211> 14

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 113

Gln His Gly Leu Gln Ile Leu Leu Gln Arg Asp Gly Val Pro Gly Gly
1 5 10 15

Asp Ala Gly Glu Pro His Gly Gln Xaa Arg Gly Leu His Ala Gln Gln
20 25 30

Leu His Arg Pro Val Gly Ser Val Asp Leu Trp Ile Phe Arg Val Asp
35 40 45

Ala Ala Gly Ser Gly Pro Xaa Val Xaa Xaa Gly Asn Glu Leu Arg His
50 55 60

Leu Gln Gly Leu Pro Gly Thr Val Gly His Pro Arg Thr Met Asp Glu
65 70 75 80

Thr Gly Pro Pro Ala Val Gly Glu Pro Arg Ser Gly Pro Ser Ala Gly
85 90 95

Ser Ala Gly Pro Thr Ala Ala Ala Ser Pro Arg Pro Ala Ala Thr Ser
100 105 110

Pro Thr Gly Arg Ala His Ile Ala Gly Arg Cys Ser Gln Pro Thr Ala
115 120 125

Asp Asp Xaa Pro Glu Phe Val Cys Leu Lys Thr Leu Leu Leu Cys Leu
130 135 140

Arg Met Gly Glu Met Arg Ser Glu Ala Pro Gly Ala Ala Xaa Glu Lys
145 150 155 160

Asn Asn Phe Tyr Arg Asp Ala Arg Asp Ser Arg Gly Ser Gly Xaa Gly
165 170 175

Thr Gly Gly Asn Ala Ala Cys Ala Gln Ser Pro Leu Pro Arg Thr Ser
180 185 190

10062543-0230502

Gln Gly Leu Pro Gly Thr Val Gly His Pro Arg Thr Met Asp Glu Thr
20 25 30

Gly Gly Asn Ala Ala Cys Ala Gln Ser Pro Leu Pro Arg Thr Ser Lys
35 40 45

<400> 118
Ile Arg Ser Lys Leu Arg Gly Arg Gly Trp Gly Cys Arg Gly Gly Asp
1 5 10 15

```
<210> 119
<211> 16
<212> PRT
<213> Homo sapiens
```

<400> 119
Gly Thr Ser Pro Glu Ala Tyr Val Gly Pro Gly Gly Pro Glu Cys Pro
1 5 10 15

```
<210> 120
<211> 20
<212> PRT
<213> Homo sapiens
```

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<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<400> 120
Ser Cys Ile His Thr Gly Asp Val Met Ile Xaa Pro Val Leu Ser Cys
      1              5              10             15
```

Phe Thr Arg Phe
20

```
<210> 121
<211> 50
<212> PRT
<213> Homo sapiens
```

<400> 121
Gly Arg His Leu Val Ala Ser Gln Lys Arg Val Leu Arg Asp Arg Arg
1 5 10 15

Val Gln Thr Gly Ile Trp Ser Asp Gln Leu Tyr Ser Gln Arg Pro Trp
20 25 30

Ala Pro Val Thr Trp Pro Asp His Trp Gly Val Cys Val Cys Val Tyr
 35 40 45

Val Cys
 50

<210> 122
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
 Ala Phe Pro His Ser Ile Pro Cys Gln Val Met Ala Val Pro Ser Pro
 1 5 10 15

Gln Leu Leu Leu Glu Arg Pro Xaa Leu Pro Val Ser Phe Met Phe Leu
 20 25 30

Thr Ser His Pro Pro Pro Arg Leu Val Cys Pro
 35 40

<210> 123
 <211> 361
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 123
 Leu Pro Thr Leu His Ser Leu Ser Ser Tyr Gly Cys Pro Leu Thr Pro
 1 5 10 15

Ala Ala Pro Arg Glu Ala Leu Xaa Thr Cys Val Ile His Val Ser Asn
 20 25 30

Lys Pro Pro Ser Thr Pro Ser Cys Val Pro His Ala Pro Val His Leu
 35 40 45

Cys Cys Val Gly Val Gly Gly Pro Phe Ala His Ala Trp Gly Ile Pro
 50 55 60

Cys Pro Asp Gln Arg Asp Lys Glu Arg Glu Arg Arg Leu Gln Glu Ala
 65 70 75 80

Arg Gly Arg Pro Gly Glu Gly Arg Gly Asn Thr Ala Thr Glu Thr Thr
 85 90 95

000000 0429001

Thr	Arg	His	Ser	Gln	Arg	Ala	Ala	Asp	Gly	Ser	Ala	Val	Ser	Thr	Val
				100					105						110
Thr	Lys	Thr	Glu	Arg	Leu	Val	His	Ser	Asn	Asp	Gly	Thr	Arg	Thr	Ala
			115				120					125			
Arg	Thr	Thr	Thr	Val	Glu	Ser	Ser	Phe	Val	Arg	Arg	Ser	Glu	Asn	Gly
	130					135					140				
Ser	Gly	Ser	Thr	Met	Met	Gln	Thr	Lys	Thr	Phe	Ser	Ser	Ser	Ser	Ser
145					150					155					160
Ser	Lys	Lys	Met	Gly	Ser	Ile	Phe	Asp	Arg	Glu	Asp	Gln	Ala	Ser	Pro
				165					170					175	
Arg	Ala	Gly	Ser	Leu	Ala	Ala	Leu	Glu	Lys	Arg	Gln	Ala	Glu	Lys	Lys
				180				185					190		
Lys	Glu	Leu	Met	Lys	Ala	Gln	Ser	Leu	Pro	Lys	Thr	Ser	Ala	Ser	Gln
			195				200					205			
Ala	Arg	Lys	Ala	Met	Ile	Glu	Lys	Leu	Glu	Lys	Glu	Gly	Ala	Ala	Gly
	210					215					220				
Ser	Pro	Gly	Gly	Pro	Arg	Ala	Ala	Val	Gln	Arg	Ser	Thr	Ser	Phe	Gly
225					230					235					240
Val	Pro	Asn	Ala	Asn	Ser	Ile	Lys	Gln	Met	Leu	Leu	Asp	Trp	Cys	Arg
				245					250					255	
Ala	Lys	Thr	Arg	Gly	Tyr	Glu	His	Val	Asp	Ile	Gln	Asn	Phe	Ser	Ser
			260					265					270		
Ser	Trp	Ser	Asp	Gly	Met	Ala	Phe	Cys	Ala	Leu	Val	His	Asn	Phe	Phe
		275					280					285			
Pro	Glu	Ala	Phe	Asp	Tyr	Gly	Gln	Leu	Ser	Pro	Gln	Asn	Arg	Arg	Gln
	290					295					300				
Asn	Phe	Glu	Val	Ala	Phe	Ser	Ser	Ala	Glu	Thr	His	Ala	Asp	Cys	Pro
305					310					315					320
Gln	Leu	Leu	Asp	Thr	Glu	Asp	Met	Val	Arg	Leu	Arg	Glu	Pro	Asp	Trp
				325					330					335	
Lys	Cys	Val	Tyr	Thr	Tyr	Ile	Gln	Glu	Phe	Tyr	Arg	Cys	Leu	Val	Gln
				340				345					350		
Lys	Gly	Leu	Val	Lys	Thr	Lys	Lys	Ser							
		355					360								

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 124

Leu	Pro	Thr	Leu	His	Ser	Leu	Ser	Ser	Tyr	Gly	Cys	Pro	Leu	Thr	Pro
1				5					10					15	

Ala	Ala	Pro	Arg	Glu	Ala	Leu	Xaa	Thr	Cys	Val	Ile	His	Val	Ser	Asn
			20					25						30	

Lys	Pro	Pro	Ser	Thr	Pro	Ser	Cys	Val	Pro	His	Ala	Pro	Val
		35					40					45	

<210> 125

<211> 46

<212> PRT

<213> Homo sapiens

<400> 125

His	Leu	Cys	Cys	Val	Gly	Val	Gly	Gly	Pro	Phe	Ala	His	Ala	Trp	Gly
1				5					10					15	

Ile	Pro	Cys	Pro	Asp	Gln	Arg	Asp	Lys	Glu	Arg	Glu	Arg	Arg	Leu	Gln
			20					25						30	

Glu	Ala	Arg	Gly	Arg	Pro	Gly	Glu	Gly	Arg	Gly	Asn	Thr	Ala
		35					40					45	

<210> 126

<211> 46

<212> PRT

<213> Homo sapiens

<400> 126

Thr	Glu	Thr	Thr	Thr	Arg	His	Ser	Gln	Arg	Ala	Ala	Asp	Gly	Ser	Ala
1				5					10					15	

Val	Ser	Thr	Val	Thr	Lys	Thr	Glu	Arg	Leu	Val	His	Ser	Asn	Asp	Gly
			20					25						30	

Thr	Arg	Thr	Ala	Arg	Thr	Thr	Thr	Val	Glu	Ser	Ser	Phe	Val
			35					40				45	

<210> 127

<211> 46

<212> PRT

<213> Homo sapiens

<400> 127

Arg	Arg	Ser	Glu	Asn	Gly	Ser	Gly	Ser	Thr	Met	Met	Gln	Thr	Lys	Thr
1				5					10					15	

Phe	Ser	Ser	Ser	Ser	Ser	Ser	Lys	Lys	Met	Gly	Ser	Ile	Phe	Asp	Arg
							20		25					30	

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<210> 128
<211> 47
<212> PRT
<213> Homo sapiens
```

Leu Pro Lys Thr Ser Ala Ser Gln Ala Arg Lys Ala Met Ile Glu Lys
20 25 30

Leu Glu Lys Glu Gly Ala Ala Gly Ser Pro Gly Gly Pro Arg Ala
35 40 45

```
<210> 129
<211> 47
<212> PRT
<213> Homo sapiens
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<400> 129
Ala Val Gln Arg Ser Thr Ser Phe Gly Val Pro Asn Ala Asn Ser Ile
1 5 10 15

Lys Gln Met Leu Leu Asp Trp Cys Arg Ala Lys Thr Arg Gly Tyr Glu
20 25 30

His Val Asp Ile Gln Asn Phe Ser Ser Ser Trp Ser Asp Gly Met
35 40 45

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<210> 130
<211> 49
<212> PRT
<213> Homo sapiens
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<400> 130
Ala Phe Cys Ala Leu Val His Asn Phe Phe Pro Glu Ala Phe Asp Tyr
1 5 10 15

Gly Gln Leu Ser Pro Gln Asn Arg Arg Gln Asn Phe Glu Val Ala Phe
20 25 30

Ser Ser Ala Glu Thr His Ala Asp Cys Pro Gln Leu Leu Asp Thr Glu
35 40 45

Asp

```
<210> 131
<211> 34
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<212> PRT

<213> Homo sapiens

<400> 131

Met Val Arg Leu Arg Glu Pro Asp Trp Lys Cys Val Tyr Thr Tyr Ile
1 5 10 15

Gln Glu Phe Tyr Arg Cys Leu Val Gln Lys Gly Leu Val Lys Thr Lys
20 25 30

Lys Ser

<210> 132

<211> 341

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (333)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 132

Lys Met Glu Trp Leu Ala Asp Pro Thr Ala Trp Leu Gly Leu Leu Thr
1 5 10 15

100625410 100625410

325

81
330

335

Thr Arg Ala Cys Pro
340

<210> 133
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 133
 Lys Met Glu Trp Leu Ala Asp Pro Thr Ala Trp Leu Gly Leu Leu Thr
 1 5 10 15
 Leu Ile Val Leu Xaa Leu Val Leu Gly Ile Asp Asn Leu Val Phe Ile
 20 25 30
 Xaa Ile Xaa Ala Xaa Lys Leu Pro Pro Glu Gln Arg Asp Arg Ala Arg
 35 40 45

<210> 134
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 134
 Leu Ile Gly Leu Ser Leu Ala Leu Leu Met Arg Leu Gly Leu Leu Ala
 1 5 10 15
 Ser Ile Ser Trp Leu Val Thr Leu Thr Gln Pro Leu Phe Glu Val Phe
 20 25 30
 Asp Lys Ser Phe Ser Gly Arg Asp Leu Ile Met Leu Phe Gly Gly Val

35

40

82

45

Phe

<210> 135

<211> 47

<212> PRT

<213> Homo sapiens

<400> 135

Leu Leu Phe Lys Ala Thr Met Glu Leu His Glu Arg Leu Glu Gly His
 1 5 10 15

Val Ala Gln Arg Thr Gly Asn Val Ala Tyr Ala Met Phe Trp Pro Ile
 20 25 30

Val Ala Gln Ile Val Val Leu Asp Ala Val Phe Ser Leu Asp Ala
 35 40 45

<210> 136

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 136

Val Ile Thr Ala Val Gly Met Val Asp Glu Leu Ala Val Met Met Ile
 1 5 10 15

Ala Xaa Ile Ile Ser Ile Gly Leu Met Ile Val Ala Ser Lys Pro Leu
 20 25 30

Thr Arg Phe Val Asn Ala His Pro Thr Val Ile Met Leu Cys Leu Gly
 35 40 45

Phe

<210> 137

<211> 50

<212> PRT

<213> Homo sapiens

<400> 137

Leu Met Met Ile Gly Phe Ala Leu Thr Ala Glu Gly Leu Gly Phe His
 1 5 10 15

Ile Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe Ser Ile Leu Ile
 20 25 30

2005513 01529001

83

Glu Leu Phe Asn Gln Ile Ala Arg Ser Arg Arg Lys Lys Ser Ala Gln
35 40 45

Gly Thr
50

<210> 138
<211> 48
<212> PRT
<213> Homo sapiens

<400> 138
Leu Pro Arg Arg Glu Arg Thr Ala His Ala Val Met Arg Leu Leu Gly
1 5 10 15

Gly Arg Asn Leu Ala Val Glu Glu Val Gly Glu Glu Val Ala Asp Leu
20 25 30

Leu Asp Asn Pro-Asp Ala Asn Gly Gly Pro Leu Phe Asp Arg Arg Glu
35 40 45

<210> 139
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 139
Arg Val Met Ile Ser Gly Val Leu Gln Leu Ala Glu Arg Pro Ile Arg
1 5 10 15

Thr Leu Met Thr Pro Arg Ala Lys Val Asp Ser Ile Asp Leu Ser Asp
20 25 30

Asp Pro Xaa Thr Ile Arg Leu Lys Leu Xaa Ile Arg Leu Thr Arg Ala
35 40 45

Cys Pro
50

<210> 140
<211> 15
<212> PRT

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<213> Homo sapiens

<400> 140

Leu Leu Thr Ser Pro Val Ser Trp His Ser Thr Val Pro Ser Trp
 1 5 10 15

<210> 141

<211> 12

<212> PRT

<213> Homo sapiens

<400> 141

Ser Ala Leu Ser Ile Ser Asn His Gln Gly Phe Phe
 1 5 10

<210> 142

<211> 32

<212> PRT

<213> Homo sapiens

<400> 142

His Lys Gly Ser Gly Arg Pro Pro Thr Lys Glu Ala Met Glu Pro Met
 1 5 10 15

Glu Leu Met Glu Glu Met Leu Gly Leu Trp Val Ser Ala Asp Thr Pro
 20 25 30

<210> 143

<211> 10

<212> PRT

<213> Homo sapiens

<400> 143

Thr Val Lys His Glu Val Ile His Ala Leu
 1 5 10

<210> 144

<211> 562

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (414)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 144
Glu Xaa Leu Leu Pro Glu Lys Lys Asn Leu Val Lys Asn Lys Leu Leu
  1              5              10              15

Xaa Xaa Ala Ile-Ser Tyr Leu Glu Lys Thr Phe Gln Val Arg Arg Pro
      20              25              30

Ala Gly Thr Ile Leu Leu Ser Arg Gln Cys Ala Thr Asn Gln Tyr Leu
      35              40              45

Arg Lys Glu Asn Asp Pro His Arg Tyr Cys Thr Gly Glu Cys Ala Ala
      50              55              60

His Thr Lys Cys Gly Pro Val Ile Val Pro Glu Glu His Leu Gln Gln
      65              70              75              80

Cys Arg Val Tyr Arg Gly Gly Lys Trp Pro His Gly Ala Val Gly Val
      85              90              95

Pro Asp Gln Glu Gly Ile Ser Asp Ala Asp Phe Val Leu Tyr Val Gly
      100             105             110

Ala Leu Ala Thr Glu Arg Cys Ser His Glu Asn Ile Ile Ser Tyr Ala
      115             120             125

Ala Tyr Cys Gln Gln Glu Ala Asn Met Asp Arg Pro Ile Ala Gly Tyr
      130             135             140

Ala Asn Leu Cys Pro Asn Met Ile Ser Thr Gln Pro Gln Glu Phe Val
      145             150             155             160

Gly Met Leu Ser Thr Val Lys His Glu Val Ile His Ala Leu Gly Phe
      165             170             175

Ser Ala Gly Leu Phe Ala Phe Tyr His Asp Lys Asp Gly Asn Pro Leu
      180             185             190

Thr Ser Arg Phe Ala Asp Gly Leu Pro Pro Phe Asn Tyr Ser Leu Gly
      195             200             205

Leu Tyr Gln Trp Ser Asp Lys Val Val Arg Lys Val Xaa Arg Leu Trp
      210             215             220

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Asp	Val	Arg	Asp	Asn	Lys	Ile	Val	Arg	His	Thr	Val	Tyr	Leu	Leu	Val
225					230					235					240
Thr	Pro	Arg	Val	Val	Glu	Glu	Ala	Arg	Lys	His	Phe	Asp	Cys	Pro	Val
			245						250					255	
Leu	Glu	Gly	Met	Glu	Leu	Glu	Asn	Gln	Gly	Gly	Val	Gly	Thr	Glu	Leu
			260					265					270		
Asn	His	Trp	Glu	Lys	Arg	Leu	Leu	Glu	Asn	Glu	Ala	Met	Thr	Gly	Ser
		275					280					285			
His	Thr	Gln	Asn	Arg	Val	Leu	Ser	Arg	Ile	Thr	Leu	Ala	Leu	Met	Glu
	290					295					300				
Asp	Thr	Gly	Trp	Tyr	Lys	Ala	Asn	Tyr	Ser	Met	Ala	Glu	Lys	Leu	Asp
305					310					315					320
Trp	Gly	Arg	Gly	Met	Gly	Cys	Asp	Phe	Val	Arg	Lys	Ser	Cys	Lys	Phe
				325					330					335	
Trp	Ile	Asp	Gln	Gln	Arg	Gln	Lys	Arg	Gln	Met	Leu	Ser	Pro	Tyr	Cys
			340					345					350		
Asp	Thr	Leu	Arg	Ser	Asn	Pro	Leu	Gln	Leu	Thr	Cys	Arg	Gln	Asp	Gln
		355					360					365			
Arg	Ala	Val	Ala	Val	Cys	Asn	Leu	Gln	Lys	Phe	Pro	Lys	Pro	Leu	Pro
	370					375					380				
Gln	Glu	Tyr	Gln	Tyr	Phe	Asp	Glu	Leu	Ser	Gly	Ile	Pro	Ala	Glu	Asp
385					390					395					400
Leu	Pro	Tyr	Tyr	Gly	Gly	Ser	Val	Glu	Ile	Ala	Asp	Tyr	Xaa	Pro	Phe
				405					410					415	
Ser	Gln	Glu	Phe	Ser	Trp	His	Leu	Ser	Gly	Glu	Tyr	Gln	Arg	Ser	Ser
			420					425					430		
Asp	Cys	Arg	Ile	Leu	Glu	Asn	Gln	Pro	Glu	Ile	Phe	Lys	Asn	Tyr	Gly
		435					440					445			
Ala	Glu	Lys	Tyr	Gly	Pro	His	Ser	Val	Cys	Leu	Ile	Gln	Lys	Ser	Ala
	450					455					460				
Phe	Val	Met	Glu	Lys	Cys	Glu	Arg	Lys	Leu	Ser	Tyr	Pro	Asp	Trp	Gly
465					470					475					480
Ser	Gly	Cys	Tyr	Gln	Val	Ser	Cys	Ser	Pro	Gln	Gly	Leu	Lys	Val	Trp
				485					490					495	
Val	Gln	Asp	Thr	Ser	Tyr	Leu	Cys	Ser	Arg	Ala	Gly	Gln	Val	Leu	Pro
		500						505					510		
Val	Ser	Ile	Gln	Met	Asn	Gly	Trp	Ile	His	Asp	Gly	Asn	Leu	Leu	Cys
	515						520					525			
Pro	Ser	Cys	Trp	Asp	Phe	Cys	Glu	Leu	Cys	Pro	Pro	Glu	Thr	Asp	Pro

Ser Ser

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<210> 147
<211> 45
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<212> PRT

<213> Homo sapiens

<400> 147

Ala Val Gly Val Pro Asp Gln Glu Gly Ile Ser Asp Ala Asp Phe Val
 1 5 10 15

Leu Tyr Val Gly Ala Leu Ala Thr Glu Arg Cys Ser His Glu Asn Ile
 20 25 30

Ile Ser Tyr Ala Ala Tyr Cys Gln Gln Glu Ala Asn Met
 35 40 45

<210> 148

<211> 46

<212> PRT

<213> Homo sapiens

<400> 148

Asp Arg Pro Ile Ala Gly Tyr Ala Asn Leu Cys Pro Asn Met Ile Ser
 1 5 10 15

Thr Gln Pro Gln Glu Phe Val Gly Met Leu Ser Thr Val Lys His Glu
 20 25 30

Val Ile His Ala Leu Gly Phe Ser Ala Gly Leu Phe Ala Phe
 35 40 45

<210> 149

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 149

Tyr His Asp Lys Asp Gly Asn Pro Leu Thr Ser Arg Phe Ala Asp Gly
 1 5 10 15

Leu Pro Pro Phe Asn Tyr Ser Leu Gly Leu Tyr Gln Trp Ser Asp Lys
 20 25 30

Val Val Arg Lys Val Xaa Arg Leu Trp Asp Val Arg Asp
 35 40 45

<210> 150

<211> 46

<212> PRT

<213> Homo sapiens

<400> 150

Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val Thr Pro Arg Val

100549-10500
 22522-22522

1 5 89 10 15
Val Glu Glu Ala Arg Lys His Phe Asp Cys Pro Val Leu Glu Gly Met
20 25 30

Glu Leu Glu Asn Gln Gly Gly Val Gly Thr Glu Leu Asn His
35 40 45

<210> 151
<211> 45
<212> PRT
<213> Homo sapiens

<400> 151
Trp Glu Lys Arg Leu Leu Glu Asn Glu Ala Met Thr Gly Ser His Thr
1 5 10 15

Gln Asn Arg Val Leu Ser Arg Ile Thr Leu Ala Leu Met Glu Asp Thr
20 25 30

Gly Trp Tyr Lys Ala Asn Tyr Ser Met Ala Glu Lys Leu
35 40 45

<210> 152
<211> 45
<212> PRT
<213> Homo sapiens

<400> 152
Asp Trp Gly Arg Gly Met Gly Cys Asp Phe Val Arg Lys Ser Cys Lys
1 5 10 15

Phe Trp Ile Asp Gln Gln Arg Gln Lys Arg Gln Met Leu Ser Pro Tyr
20 25 30

Cys Asp Thr Leu Arg Ser Asn Pro Leu Gln Leu Thr Cys
35 40 45

<210> 153
<211> 47
<212> PRT
<213> Homo sapiens

<400> 153
Arg Gln Asp Gln Arg Ala Val Ala Val Cys Asn Leu Gln Lys Phe Pro
1 5 10 15

Lys Pro Leu Pro Gln Glu Tyr Gln Tyr Phe Asp Glu Leu Ser Gly Ile
20 25 30

Pro Ala Glu Asp Leu Pro Tyr Tyr Gly Gly Ser Val Glu Ile Ala
35 40 45

<210> 154

<211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 154
 Asp Tyr Xaa Pro Phe Ser Gln Glu Phe Ser Trp His Leu Ser Gly Glu
 1 5 10 15
 Tyr Gln Arg Ser Ser Asp Cys Arg Ile Leu Glu Asn Gln Pro Glu Ile
 20 25 30
 Phe Lys Asn Tyr Gly Ala Glu Lys Tyr Gly Pro His Ser Val Cys Leu
 35 40 45

<210> 155
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 155
 Ile Gln Lys Ser Ala Phe Val Met Glu Lys Cys Glu Arg Lys Leu Ser
 1 5 10 15
 Tyr Pro Asp Trp Gly Ser Gly Cys Tyr Gln Val Ser Cys Ser Pro Gln
 20 25 30
 Gly Leu Lys Val Trp Val Gln Asp Thr Ser Tyr Leu Cys Ser
 35 40 45

<210> 156
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 156
 Arg Ala Gly Gln Val Leu Pro Val Ser Ile Gln Met Asn Gly Trp Ile
 1 5 10 15
 His Asp Gly Asn Leu Leu Cys Pro Ser Cys Trp Asp Phe Cys Glu Leu
 20 25 30
 Cys Pro Pro Glu Thr Asp Pro Pro Ala Thr Asn Leu Thr Arg Ala Leu
 35 40 45
 Pro Leu Asp Leu Cys Ser Cys Ser Ser
 50 55

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```
<400> 157
Ile Lys Glu Lys Leu His Val His Gly
  1                      5
```

<400> 158
Gly Phe Gly Val Tyr Ile Leu Tyr Ala
1 5

<400> 159
Lys Pro Ser Gly Thr Val Tyr Thr Leu Phe Ser Leu Asn Ser Gly Thr
1 5 10 15

```
<210> 160
<211> 19
<212> PRT
<213> Homo sapiens
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<400> 160
Ala Asp Leu Thr Ala Val Cys Ser Ala Trp Lys Pro Gly Ala Lys Pro
1 5 10 15

```
<210> 161
<211> 19
<212> PRT
<213> Homo sapiens
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<400> 161
Ala Asp Leu Thr Ala Val Cys Ser Ala Trp Lys Pro Gly Ala Lys Pro
  1                   5           10           15
```

Val Gly Leu

<210> 162
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 162
 Gly Ser Asn Lys Leu Ile Asn His Leu Glu Gln Cys Ser Ile Gly Trp
 1 5 10 15
 Ile Phe Val Cys Leu Phe Val Cys Cys Tyr Ser Phe Cys Val Met Phe
 20 25 30
 Cys Ile Gln Gln Lys Trp Leu Phe Ser Phe Leu Phe Tyr Glu Val Gly
 35 40 45
 Leu Met Gly Ile Asp Ser Leu Arg Lys Lys Tyr Asn Cys Lys Ser Val
 50 55 60
 Glu Val Phe Pro Ser Gln Asp Val Lys Cys Gln Arg Ser Asp Ser Cys
 65 70 75 80
 Gly Arg Met Gly Ser Lys Leu Tyr Lys Ser Leu Glu Met Asn Glu Val
 85 90 95
 Arg Gln Leu Ser Leu Arg Gln Lys Thr Met
 100 105

<210> 163
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 163
 Thr Thr Trp Ala Thr Ser Ser Val Val Ala Arg Xaa Thr His His Leu
 1 5 10 15
 Phe Pro Pro His Ser Gly Ile Ser Val Asn Ile Gln Asp Leu Ala Pro
 20 25 30
 Ser Cys Ala Gly Phe Leu Phe Gly Val Ala Asn Thr Ala Gly Ala Leu
 35 40 45
 Ala Gly Val Val Gly Val Cys Leu Gly Gly Tyr Leu
 50 55 60

<210> 164
 <211> 103
 <212> PRT
 <213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

Thr Thr Trp Ala Thr Ser Ser Val Val Ala Arg Xaa Thr His His Leu
1 5 10 15

Phe Pro Pro His Ser Gly Ile Ser Val Asn Ile Gln Asp Leu Ala Pro
20 25 30

Ser Cys Ala Gly Phe Leu Phe Gly Val Ala Asn Thr Ala Gly Ala Leu
35 40 45

Ala Gly Val Val Gly Val Cys Leu Gly Gly Tyr Leu Met Glu Thr Thr
50 55 60

Gly Ser Trp Thr Cys Leu Phe Asn Leu Val Ala Ile Ile Ser Asn Leu
65 70 75 80

Gly Leu Cys Thr Phe Leu Val Phe Gly Gln Ala Gln Arg Val Asp Leu
85 90 95

Ser Ser Thr His Glu Asp Leu
100

<213> Homo sapiens

Asp Ser Pro Leu Thr Val Leu Pro Glu Asp Gly Tyr Gly Ser Asp Ser
1 5 10 15

His Leu Ser Ser Gln Val Val Arg Gly Pro Thr
20 25

<213> Homo sapiens

Met Leu Val Thr Ala Tyr Leu Ala Phe Val Gly Leu Leu Ala Ser Cys
1 5 10 15

Leu Gly Leu Glu Leu Ser Arg Cys Arg Ala Lys Pro Pro Gly Arg Ala
20 25 30

Cys Ser Asn Pro Ser Phe Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val
35 40 45

Tyr Phe Leu Ala Leu Ala Ala Asp Trp Leu Gln Ala Pro Tyr Leu Tyr
50 55 60

Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu Tyr Val Cys Gly Leu Ala
130 135 140

Ser Thr Val Leu Phe Gly Leu Val Ala Ser Ser Ser Leu Val Asp Trp Leu	145	150	155	160
Gly Arg Lys Asn Ser Cys Val Leu Phe Ser Leu Thr Tyr Ser Leu Cys	165	170	175	
Cys Leu Thr Lys Leu Ser Gln Asp Tyr Phe Val Leu Leu Val Gly Arg	180	185	190	
Ala Leu Gly Gly Leu Ser Thr Ala Leu Leu Phe Ser Ala Phe Glu Ala	195	200	205	
Trp Tyr Ile His Glu His Val Glu Arg His Asp Phe Pro Ala Glu Trp	210	215	220	
Ile Pro Ala Thr Phe Ala Arg Ala Ala Phe Trp Asn His Val Leu Ala	225	230	235	240
Val Val Ala Gly Val Ala Ala Glu Ala Val Ala Ser Trp Ile Gly Leu	245	250	255	
Gly Pro Val Ala Pro Phe Val Ala Ala Ile Pro Leu Leu Ala Leu Ala	260	265	270	
Gly Ala Leu Ala Leu Arg Asn Trp Gly Glu Asn Tyr Asp Arg Gln Arg	275	280	285	
Ala Phe Ser Arg Thr Cys Ala Gly Gly Leu Arg Cys Leu Leu Ser Asp	290	295	300	
Arg Arg Val Leu Leu Leu Gly Thr Ile Gln Ala Leu Phe Glu Ser Val	305	310	315	320
Ile Phe Ile Phe Val Phe Leu Trp Thr Pro Val Leu Asp Pro His Gly	325	330	335	
Ala Pro Leu Gly Ile Ile Phe Ser Ser Phe Met Ala Ala Ser Leu Leu	340	345	350	
Gly Ser Ser Leu Tyr Arg Ile Ala Thr Ser Lys Arg Tyr His Leu Gln	355	360	365	
Pro Met His Leu Leu Ser Leu Ala Val Leu Ile Val Val Phe Ser Leu	370	375	380	
Phe Met Leu Thr Phe Ser Thr Ser Pro Gly Gln Glu Ser Pro Val Glu	385	390	395	400
Ser Phe Ile Ala Phe Leu Leu Ile Glu Leu Ala Cys Gly Leu Tyr Phe	405	410	415	
Pro Ser Met Ser Phe Leu Arg Arg Lys Val Ile Pro Glu Thr Glu Gln	420	425	430	
Ala Gly Val Leu Asn Trp Phe Arg Val Pro Leu His Ser Leu Ala Cys	435	440	445	
Leu Gly Leu Leu Val Leu His Asp Ser Asp Arg Lys Thr Gly Thr Arg				

Val Ser Gln Pro Glu Leu Trp Tyr Arg Glu
20 25

<210> 171
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 171

Lys Pro Thr Lys Met Pro Leu Leu Trp Val Trp Ala Leu Ile Ala Ala
 1 5 10 15

Val Ser Gln Pro Glu Leu Trp Tyr Arg Glu Met Gly Val Leu Leu Leu
 20 25 30

Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe Ser Pro Val Val Leu Pro
 35 40 45

Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe Val Phe Cys Thr Ser Phe
 50 55 60

Trp Arg Pro Leu Ser Phe Gln Lys Gly
 65 70

<210> 172
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 172

Cys Phe Thr His Trp Asn Val Phe Pro Arg Leu Trp Met Thr Ser Phe
 1 5 10 15

Leu Met Glu Arg Val Gln Glu Gly Trp Lys Thr Pro Gly Phe Lys Leu
 20 25 30

Ser Ile Pro His Met Gly Phe Ser Ile Ile Phe Arg Pro Glu Ala Ala
 35 40 45

Arg Pro Glu Val Arg Leu His Leu Ser Ala Leu Phe Val Leu Leu Leu
 50 55 60

Ala Thr Leu Gly Phe Leu Leu Gly Thr Met Cys Gly Cys Gly Met Cys
 65 70 75 80

Glu Gln Lys Gly Gly
 85